

“Colonnade”
Security Pipe



S
e
c
u
r
i
t
y
P
i
p
e



Unit 2, Vitruvius Way
Meridian Business Park
Braunstone
Leicester
LE19 1WA

Tel: 0116 2894400

Fax: 0116 2894433

E-mail: sales@arp-ltd.com

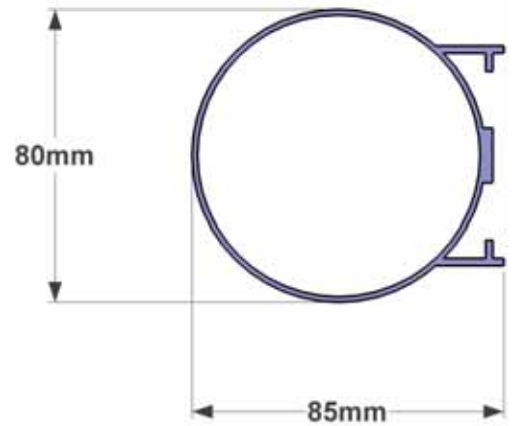
Web: www.arp-ltd.com

“Colonnade” Security Pipe

Description:

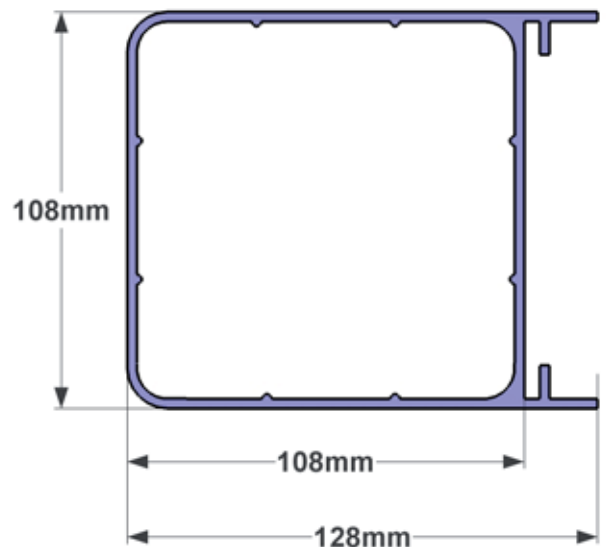
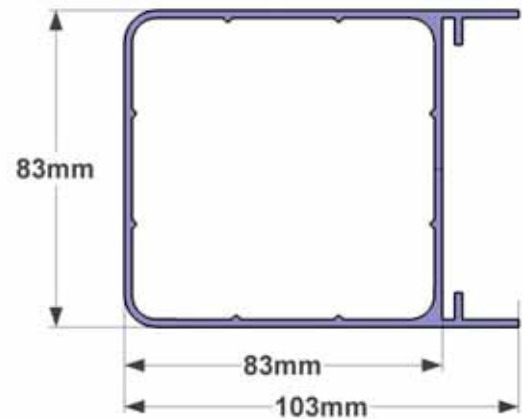
Round & Square downpipe formed from extruded 6060 T4 aluminium in various sizes (Ø80mm, 83x83mm, 108x108mm*) & supplied with a complete range of accessories ie offsets, bends, drain offsets etc.

* Nominal size



Key Benefits:

For security conscious applications the pipe stack fits completely flush to the wall, the concealed & inaccessible joints make the pipe unclimbable after assembly. This also provides for a smooth visual appearance



S
e
c
u
r
i
t
y
P
i
p
e

“Colonnade” Security Pipe

Composition & Manufacture:

‘Colonnade’ downpipes are manufactured from Aluminium alloy 6060 T4 to BS1474: 1972 & the product complies to, or exceeds all relevant standards.

Fittings for the downpipes are formed using fabrication methods involving cut, mitre & welding techniques using specially made jig & forming tools.

Finish:

Mill Finish Aluminium or Polyester Powder Coated to a range of BS or RAL Colours.

Installation & Jointing:

Unlike other systems, Security Pipe has to be built from the ground up.

Ensure vertical alignment between drain & gutter outlet.

Pipe Brackets should be fixed into the top of the pipe by lightly tapping into place & then fixed to the wall using plastic wall plugs & 5mm x 50mm st.stl screws (dependant on substrate).

Apply a bead of sealant around spigot before inserting into mating pipe. Clean off excess as required.

See Fig 1.

Model Specification:

ARP heavy grade ‘Colonnade’ Security pipes & fittings to BS 2997 (EN612) using 6060 T4 grade extruded aluminium in accordance with BS 1474: 1974. Profile to be Round/Square*, size Ø80mm (2mm), 83x83mm (2mm), 108x108mm (2.5mm)* Materials to have factory applied Polyester Powder Coat to all significant surfaces in accordance with BS EN 122026 Matt/Satin/Gloss* finish, or alternatively plain aluminium Mill Finish. All to be supplied by Aluminium Roofline Products Ltd, Unit 2, Vitruvius Way, Meridian Business Park, Braunstone, Leicester LE19 1WA. Tel 0116 2894400 Fax 0116 2894433.

To be fastened by 5mm x 50mm (dependant on substrate) stainless steel screws, in accordance with the manufacturer’s specification & guidelines. Downpipes to be fixed at 2m centres maximum with supplementary brackets at or near fittings.

* Delete as appropriate

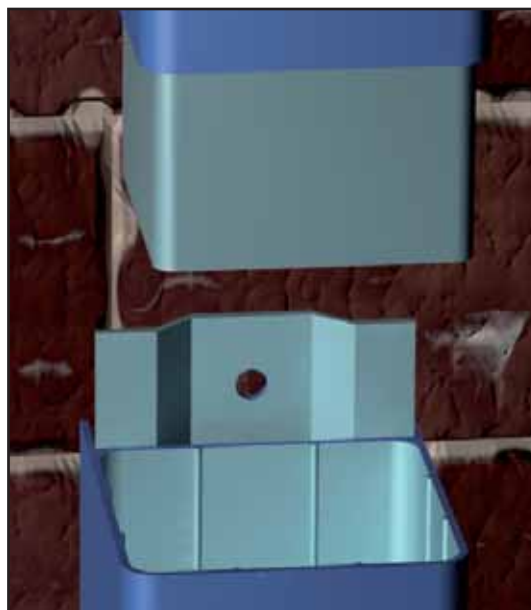
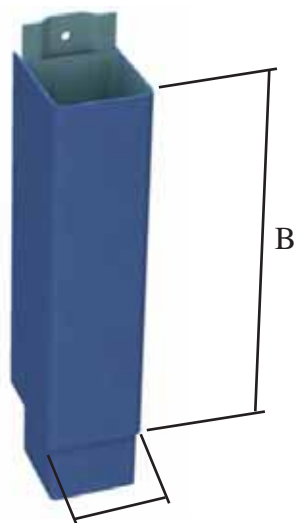


Fig 1.

“Colonnade” Security Pipe

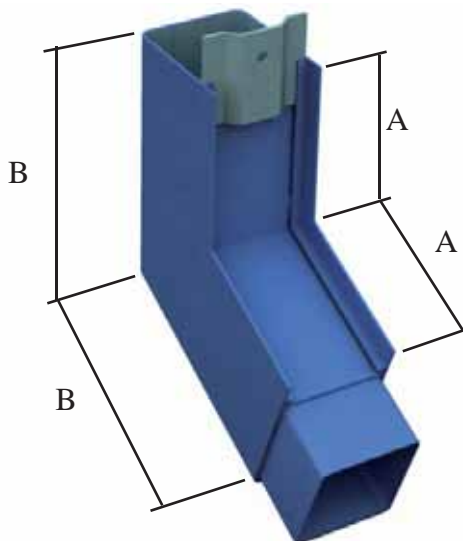
Downpipe Lengths



A (nominal pipe size)

A	Code	Code
(mm)	B=2.0m	B=1.0m
Ø80	3RVDP2	3RVDP1
83x83	3SVDP2	3SVDP1
108x108	4SVDP2	4SVDP1

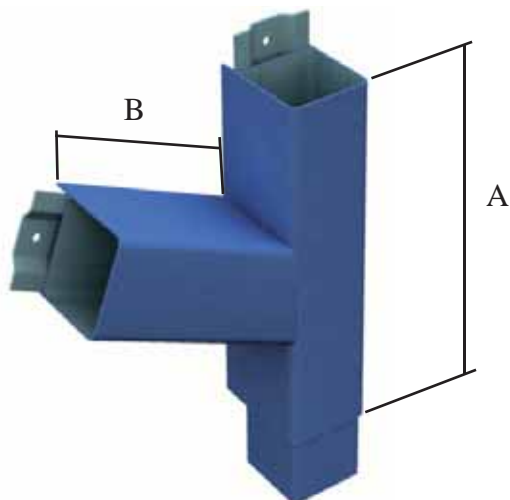
Bends



Pipe Size	Code	A	B	Code	A	B	Code	A	B
(mm)	92.5°	(mm)	(mm)	112.5°	(mm)	(mm)	135°	(mm)	(mm)
Ø80	3RVB92	120	204	3RVB112	120	178	3RVB135	120	155
83x83	3SVB92	120	217	3SVB112	120	186	3SVB135	120	162
108x108	4SVB92	120	245	4SVB112	120	207	4SVB135	120	174

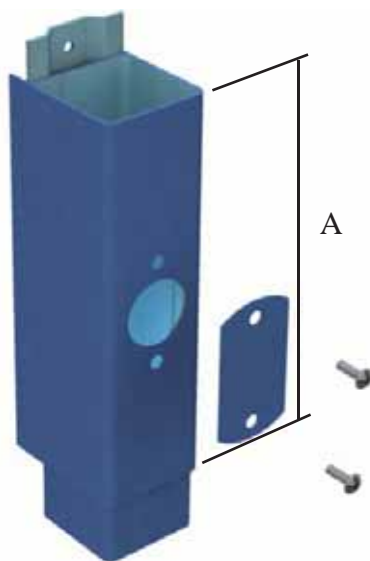
“Colonnade” Security Pipe

Y-Branch



Pipe Size (mm)	Code	A (mm)	B (mm)	Code	A (mm)	B (mm)	Code	A (mm)	B (mm)
Ø80	3RVY92	300	120	3RVY112	300	120	3RVY135	300	120
83x83	3SVY92	300	120	3SVY112	300	120	3SVY135	300	120
108x108	4SVY92	300	120	4SVY112	300	120	4SVY135	300	120

Access Pipe



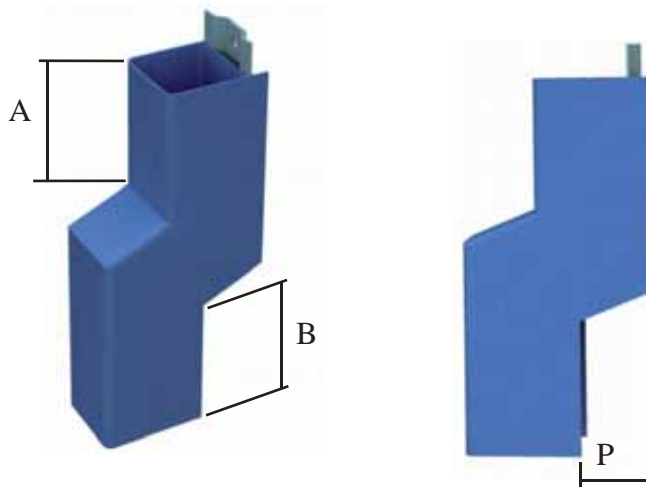
Pipe Size (mm)	Code	A (mm)
Ø80	3RVAPP	300
83x83	3SVAPP	300
108x108	4SVAPP	300

“Colonnade” Security Pipe

Swan-necks

Offsets at ground level are supplied in Security pipe whereas those at the fascia/soffit level are manufactured from our normal swaged pipe range unless otherwise requested. Specify “Front” or “Side Projecting”.

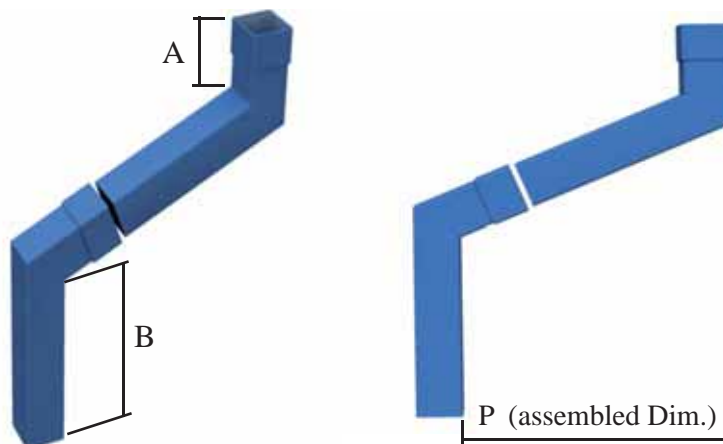
Please enquire for further details



Pipe Size	A	B	Code	Code	Code	Code	Code
(mm)	(mm)	(mm)	P=40mm	P=63mm	P=75mm	P=100mm	P=150mm
Ø80	120	300	3RVSN40/1	3RVSN63/1	3RVSN75/1	3RVSN100/1	3RVSN150/1
83x83	120	300	3SVSN40/1	3SVSN63/1	3SVSN75/1	3SVSN100/1	3SVSN150/1
108x108	120	300	4SVSN40/1	4SVSN63/1	4SVSN75/1	4SVSN100/1	4SVSN150/1

Two part Swan-necks

Two part swan-necks are supplied manufactured from normal swaged pipe with extended bottom leg & are 112.5° as standard. Please specify other requirements.

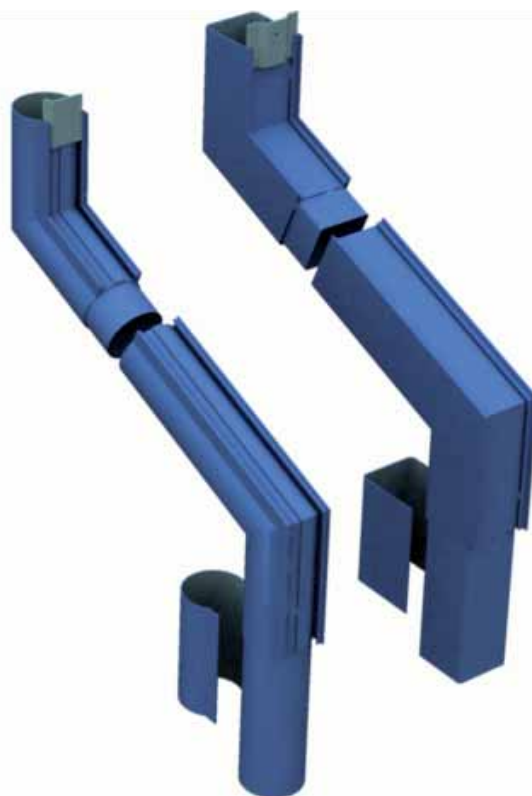


Pipe Size	A	B	Code	Code	Code	Code	Code
(mm)	(mm)	(mm)	P=150mm	P=300mm	P=450mm	P=600mm	P=750mm
Ø80	120	300	3RVSN150/2	3RVSN300/2	3RVSN450/2	3RVSN600/2	3RVSN750/2
83x83	120	300	3SVSN150/2	3SVSN300/2	3SVSN450/2	3SVSN600/2	3SVSN750/2
108x108	120	300	4SVSN150/2	4SVSN300/2	4SVSN450/2	4SVSN600/2	4SVSN750/2

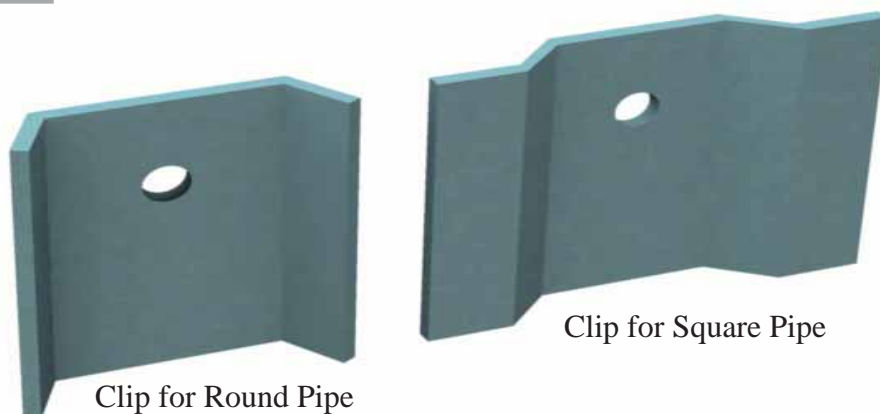
“Colonnade” Security Pipe

Swan-necks

Certain applications will demand that the pipe follows the building profile even at the fascia/soffit level. In this instance the use of Swan-necks manufactured from the actual security pipe is required. Please enquire for specific advice.



Pipe Brackets



Clip for Round Pipe

Clip for Square Pipe

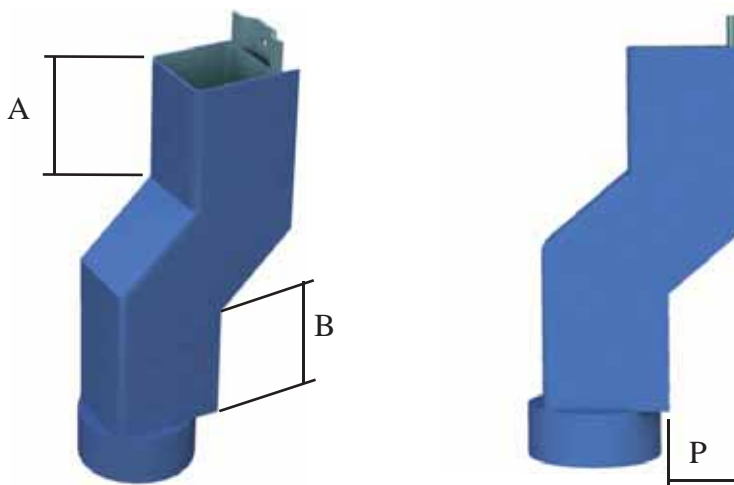
Pipe Size (mm)	Code
Ø80	3RVPC
83x83	3SVPC
108x108	4SVPC

S
e
c
u
r
i
t
y
P
i
p
e

“Colonnade” Security Pipe

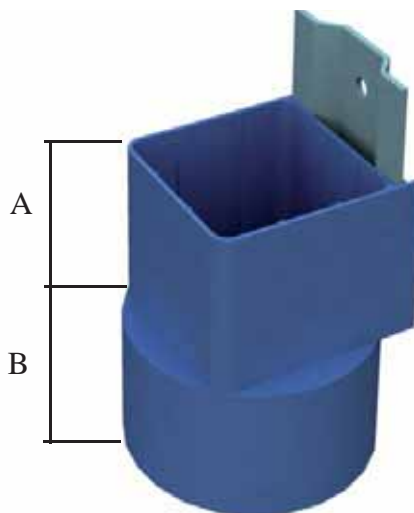
Drain Offset

All Drain offsets supplied as 135° as standard.



Pipe Size	A	B	Code	Code	Code	Code	Code
(mm)	(mm)	(mm)	P=40mm	P=63mm	P=75mm	P=100mm	P=150mm
Ø80	120	120	3RVDO40/1	3RVDO63/1	3RVDO75/1	3RVDO100/1	3RVDO150/1
83x83	120	120	3SVDO40/1	3SVDO63/1	3SVDO75/1	3SVDO100/1	3SVDO150/1
108x108	120	120	4SVDO40/1	4SVDO63/1	4SVDO75/1	4SVDO100/1	4SVDO150/1

Drain Adaptor



Pipe Size	A	B	Code
(mm)	(mm)	(mm)	
Ø80	60	60	3RVDA
83x83	60	60	3SVDA
108x108	60	60	4SVDA

Handling & Storage

Handling & Storage:

Gutters/downpipes & fittings, particularly with polyester powder coat finish should be handled with care & should preferably be stored under cover on racks to prevent scratching.

All lengths are supplied in protective polythene wrapping, components suitably packed in boxes.

If painted products are to be stored outside, cover with tarpaulin to guard against water ingress into the protective polythene.

Mill finish items should be stored under cover to avoid uneven oxidization prior to being fitted.

Safety:

The relevant safety regulations are outlined in the Health & Safety at Work Act 1974 & should be followed.

Refer to CDM regulations (Code of Practice and Design for Health and Safety in Construction 1995)

Handling mill finish or painted aluminium products does not pose any known health hazard, however it is recommended to wear protective gloves whilst handling.

When cutting or welding these products it is advisable to wear eye protection. Avoid ingestion or inhalation of any dust or fumes arising from such operations & use a face mask when necessary.

Precaution needs to be taken to avoid contact with live power lines or cables.

These products generally do not aid combustion & are rated as below.

Mill Finish, non combustible to BS 476 part 4.

Powder coated, 0.1 Fire propagation index BS476 part 6, Class 1 Flame Surface Spread BS 476 part 7.

Maintenance:

Post Installation

Gutters & downpipes should be thoroughly checked & water tested for leaks, sealant smudges & any damage that may impair the performance or appearance of the system with the necessary remedial action being taken before the system is handed over.

Inspection

The gutter should be regularly inspected in terms of fixings, joints, surface damage & build up of leaves or silt. The proximity of trees or climbing vegetation in the immediate vicinity should be noted. Lightning links, if installed should be checked for conductivity.

Cleaning:

Remove any debris in the gutter to ensure the gutter performs to its original design capacity.

Brushing down a mill finish gutter will be adequate, as an aluminium oxide layer forms over time. This acts as a natural barrier against further corrosion & thus protects the metal.

Polyester powder coated gutters & downpipes should be washed down regularly using non abrasive materials & a warm detergent solution, in marine or other aggressive environments this should be carried out at three monthly intervals. Any breaks in the surface finish should be rubbed down, primed & touched up with a suitable liquid paint.

Guarantees (if required) issued by polyester powder manufacturers or applicators are reliant upon their terms & conditions being met which include maintenance, copies available upon request.

Health & Safety

Material Safety Data Sheet - Aluminium Extrusions & Sheet Products

Product

Extruded Aluminium sections and/or Aluminium sheet formed to requirements.

Composition

The products consist of aluminium which may (or not) be subsequently coated with polyester powder paints or alternative finishes.

Health Statement

When subject to the normal purposes for which they are designed, these products do not present health risks or hazards.

By their nature these products may have sharp edges and corners and the use of gloves when handling is recommended. When installing overhead it is advisable to wear head protection.

When cutting or welding these products it is advisable to wear eye protection. Avoid ingestion or inhalation of any dust or fumes arising from such operations and use a suitable face mask when necessary.

Metal is a good conductor of electricity and precautions should be taken to ensure contact with live power lines/cables is avoided.

Precautions for Handling & Storage

No special precautions are necessary for normal handling and storage.

Procedures in the event of an emergency

There are no special risks associated and the products do not constitute a fire hazard. The products are not generally ignitable.

Waste Disposal

Waste products are not hazardous and their disposal should be in accordance with local authority regulations.

ADSHHEAD RATCLIFFE

Technical Datasheet Arbosil 1096

Arbosil 1096 is a One-part Low Modulus Neutral Cure Silicone Sealant, which cures on exposure to moisture vapour to form an elastic silicone rubber.

Main Application

Recommended for use in many forms of construction including glass wall assemblies, perimeter seals on curtain walling, perimeter sealing of polyester powder coated frames and glazing of windows in swimming pool buildings. *It is not recommended for overpainting and use against natural stone.*

Specification Compliances

BS EN ISO 11600 F/G 25LM
BS 5889 Type A: 1989
BS 6920 Part 1: 1990 (*Translucent only*)
German DIN 18545 Class 2 Type E (*Translucent only*)
German DIN 18540 Class 2 (*All colours except Translucent*)
US Federal TT-S-00 1543A Class A

Application Instructions

Joint preparation

The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the appropriate Arbo Cleaner. Primers may be required on some substrates. It is recommended that Adshead Ratcliffe Technical Services Department should be consulted and advice obtained with regard to the choice of primer for specific purposes.

Joint Backing

Where applicable, appropriate joint filler e.g. closed cell polyethylene foam, should be used to provide the correct joint depth.

Application

Arbosil 1096 is supplied in cartridges and can be applied into the joint using an Arbo Caulking Gun.

All joint preparation, priming, and sealant application should be carried out in accordance with BS 8000 Part 16, the British Standard for the sealing of joints in buildings using sealants.

Joint Size suitability

Joint width

Minimum 6mm
Maximum 25mm (*single application*); 50mm (*Multiple application*)

Joint Depth

Minimum 10mm on porous substrates
Minimum 6mm on non-porous substrates
Maximum 15mm

Width:Depth ratio (*within above min/max restrictions*)

2:1 butt joints
1:1 lap joints

Storage Life

12 months in original unopened package stored in a cool, dry place out of direct sunlight.

Health & Safety

Under the Chemical (Hazards Information and Packaging for Supply) Regulations 1994, Arbosil 1096 is labelled 'irritant'. If sealant comes into contact the eyes, flush with copious volumes of cold water and obtain medical attention. For further information consult Product Safety Data Sheet P41A/B.

ADSHEAD RATCLIFFE

Technical Datasheet Arbosil 1096

Technical Data

Properties	Values
Typical Shore A hardness.....	30
Application temperature.....	+5°C to + 50°C
Service temperature.....	-50°C to +150°C
Skinning time @ 20°C/65%RH.....	5 minutes
Cure rate @ 20°C/65%RH	2mm/24 hours
Chemical resistance.....	Resistant to most dilute acids and alkalis; organic solvents may cause the sealant to swell and lose adhesion, but do not directly dissolve the sealant.
UV resistance.....	Very Good
Service life.....	25 years +
Movement accommodation.....	Butt joints (<i>movement in tension and compression</i>): 50% (<i>Not to exceed ± 30% in any one direction</i>) Lap joints (<i>movement in shear</i>): 100% (<i>Not to exceed ± 70% in any one direction</i>)
Colours.....	White, Black, Grey, Mahogany, Translucent, Anthracite.

Accessories:

Primers

Arbo Primer 2650	500ml tin (yield approximately 125 metres per tin)
Arbo Primer 2402	500ml tin (yield approximately 200 metres per tin)
Arbo Primer 2172	500ml tin (yield approximately 200 metres per tin)

Cleaners

Arbo Cleaner No.13	1Litre tin
<i>(Toluene based – not suitable for use with plastics or delicate finishes)</i>	
Arbo Cleaner No.16	1 Litre tin
<i>(Alcohol based)</i>	

Equipment

Polyethylene nozzles
Arbo Caulking Guns

Quantity Estimator

<i>Joint size</i>	<i>Metres per litre</i>
6 x 6	27.75
9 x 6	18.50
12 x 9	9.25
18 x 10	5.55
25 x 10	4.0

Packaging: 25 x 380ml plastic cartridges. Polyethylene nozzles are included in each box.

Health & Safety

ARBOSIL 1096

BIOACCUMULATION

This product is not expected to significantly bioaccumulate.

DEGRADABILITY

Not degradable.

ACUTE FISH TOXICITY

Toxicity to fish is improbable.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15 REGULATORY INFORMATION

LABELLING



Irritant

CONTAINS

METHYL-0,0',0"-BUTAN-2-ONE-TRIOXIMOSILANE

RISK PHRASES

R43 May cause sensitisation by skin contact.

SAFETY PHRASES

S24 Avoid contact with skin.
S37 Wear suitable gloves.
S60 This material and its container must be disposed of as hazardous waste.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION COMMENTS

General review

REVISION DATE 120/9/05

REV. NO./REPL. SDS GENERATED 26/02/04

SDS NO. 10171

RISK PHRASES IN FULL

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.